"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66 EWT(1)/FCC GS/GW

ACCESSION NR: AT6011176 UR/0000/64/000/000/0223/0226

AUTHOR: Zuyev, V. Ye.; Nesmelova, L. I.; Sapozhnikova, V. A.; Tvorogov, S. D.

TITLE: Calculations of atmospheric transparency for infrared radiation

SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery, 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 223-226

TOPIC TAGS: infrared radiation, atmospheric water vapor, atmospheric transparency, atmospheric light absorption, atmospheric optics

ABSTRACT: Precise computation of the absorption coefficient and the absorption function for the infrared absorption spectra of the principal absorbing components of the atmosphere is discussed. Such computations require knowledge of a large number of parameters characterizing both the molecule whose absorption spectrum is radiated and the transitions causing the presence of these lines and bands. Since much computation work is involved, simplification has been sought by using models of absorption bands. In this paper, the quasi-statistical model is used (V. R. Stull, P. J. Wyatt, G. N. Plass, Final report of the theoretical study of infrared radiative behavior of flames, 1961). In this approach, the

Card 1/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66

ACCESSION NR: AT5011176

statistical model is applied to a quite narrow spectral range so that, within this interval, any position of lines is equi-probable. The values for water vapor, carbon dioxide and ozone used in this paper were taken from the literature. Computations of absorption in the ozone band were made for heights of 10 and 21 km. The results are shown in Figures 1-4 of the Enclosure. Figures 1 and 2 show the spectrum of the water vapor and carbon dioxide bands (with overlapping taken into account) for pressures of 1 and 0.3 atm. Fig. 3 shows the absorption spectrum of water vapor for different pressures. Fig. 4 shows the absorption of carbon dioxide. Orig. art. has: 4 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete (Siberian Physics and Technology Institute at Tomsk State University)

SUBMITTED: 25Nov64 ENCL: 04 SUB CODE: ES

NO REF SOV: 001 OTHER: 004

Card 2/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66

ENCL: 01

ACCESSION NR: AT5011176

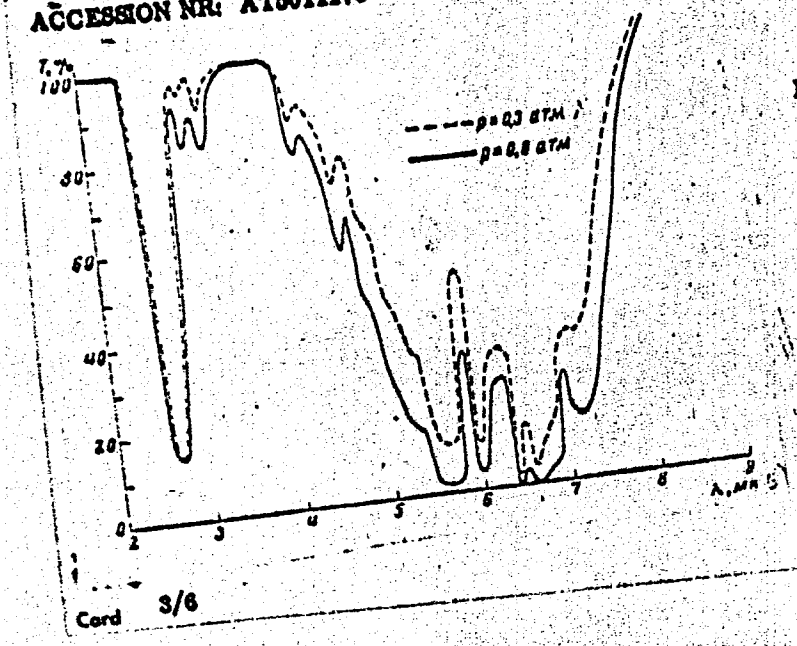


Fig. 1. Spectral transmission of radiation in the range 2-8.5μ by water vapor bands for a precipitable layer of water μ = 0.2 cm for two pressures at heights of 10 and 1 km. A) atm; B) μ.

Card 3/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66

ACCESSION NR: AT5011176 ENCL: 02

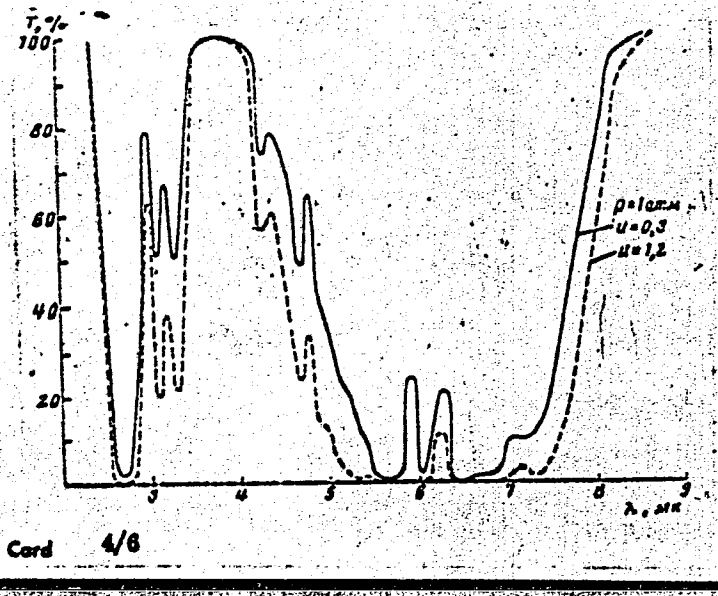


Fig. 2. Spectral transmission of radiation in the range 2-8.5μ by water vapor bands in the surface layer for two values of the precipitable layer of water: A) atm; B) μ.

Card 4/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66

ENCL: 03

ACCESSION NR: AT5011176

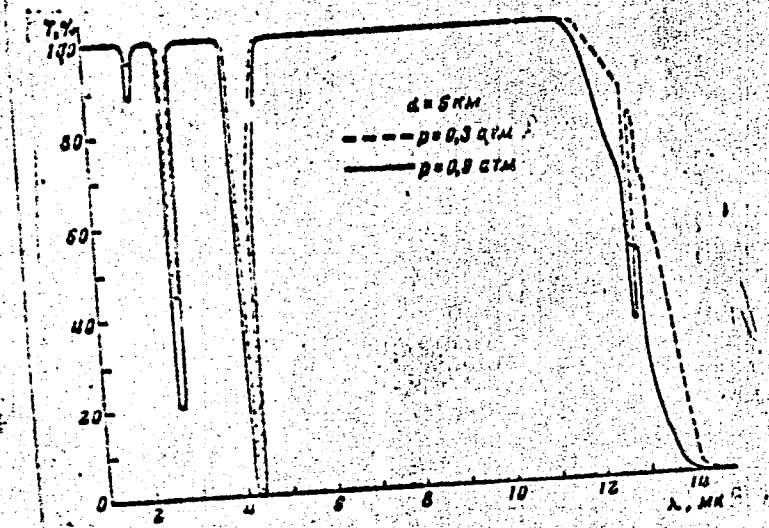


Fig. 3. Spectral transmission of radiation in the range 1-15μ by carbon dioxide bands at a distance d = 5 km at heights of 10 and 1 km. A) atm; B) μ.

Card 5/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 6938-66

ENCL: 04

ACCESSION NR: AT5011176

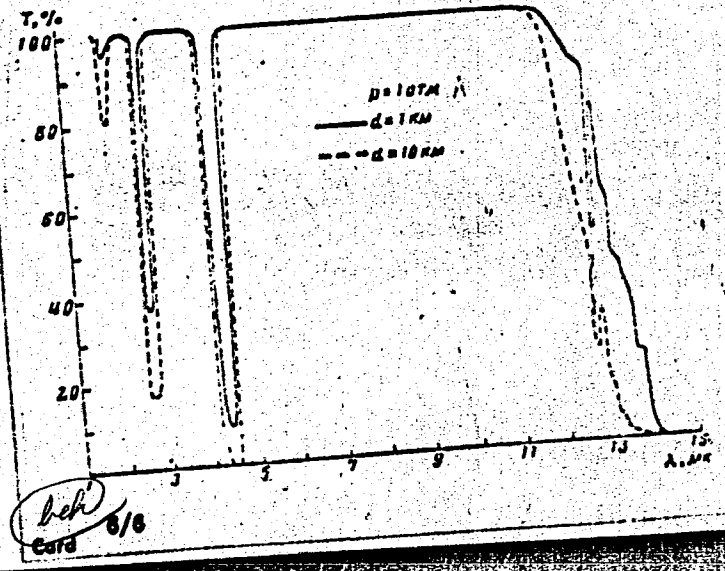


Fig. 4. Spectral transmission of radiation in the range 1-15μ by carbon dioxide bands in the surface layer at a distance d = 1 and 10 km. A) atm; B) μ.

Card 6/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66 EWT(l)/FCC GW/GS

ACCESSION NR: AT5011176 UR/0000/64/000/000/0223/0226

AUTHOR: Zuyev, V. Ye.; Nesmelova, L. I.; Sapozhnikova, V. A.; Tvorogov, S. D.

TITLE: Calculations of atmospheric transparency for infrared radiation

SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery. 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 223-236

TOPIC TAGS: infrared radiation, atmospheric water vapor, atmospheric transparency, atmospheric light absorption, atmospheric optics

ABSTRACT: Precise computation of the absorption coefficient and the absorption function for the infrared absorption spectra of the principal absorbing components of the atmosphere is discussed. Such computations require knowledge of a large number of parameters characterizing both the molecule whose absorption spectrum is radiated and the transitions causing the presence of these lines and bands. Since much computation work is involved, simplification has been sought by using models of absorption bands. In this paper, the quasi-statistical model is used (V. R. Stull, P. J. Wyatt, G. N. Plass, Final report of the theoretical study of infrared radiative behavior of flames, 1961). In this approach, the

Card 1/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66
ACCESSION NR: AT5011176

statistical model is applied to a quite narrow spectral range so that, within this interval, any position of lines is equi-probable. The values for water vapor, carbon dioxide and ozone used in this paper were taken from the literature. Computations of absorption in the ozone band were made for heights of 10 and 21 km. The results are shown in Figures 1-4 of the Enclosure. Figures 1 and 2 show the spectrum of the water vapor and carbon dioxide bands (with overlapping taken into account) for pressures of 1 and 0.3 atm. Fig. 3 shows the absorption spectrum of water vapor for different pressures. Fig. 4 shows the absorption of carbon dioxide. Orig. art. has: 4 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete (Siberian Physics and Technology Institute at Tomsk State University)

SUBMITTED: 25Nov64 ENCL: 04 SUB CODE: ES

NO REF SOV: 001 OTHER: 004

Card 2/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66

ACCESSION NR: AT5011176 ENCL: 01

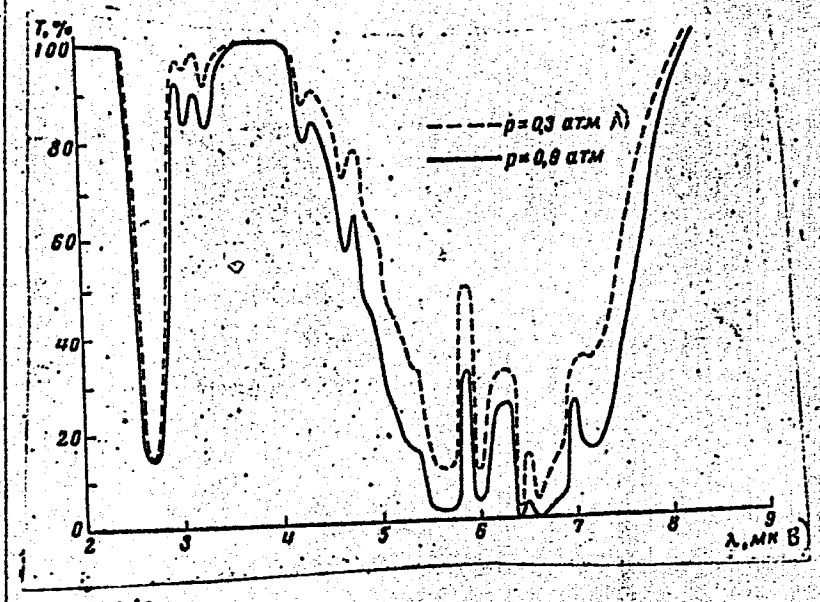


Fig. 1. Spectral transmission of radiation in the range 2–8.5μ by water vapor bands for a precipitable layer of water $\mu = 0.2$ cm for two pressures at heights of 10 and 1 km. A) atm; B) μ.

Card 3/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66
ACCESSION NR: AT5011176

ENCL: 02 O

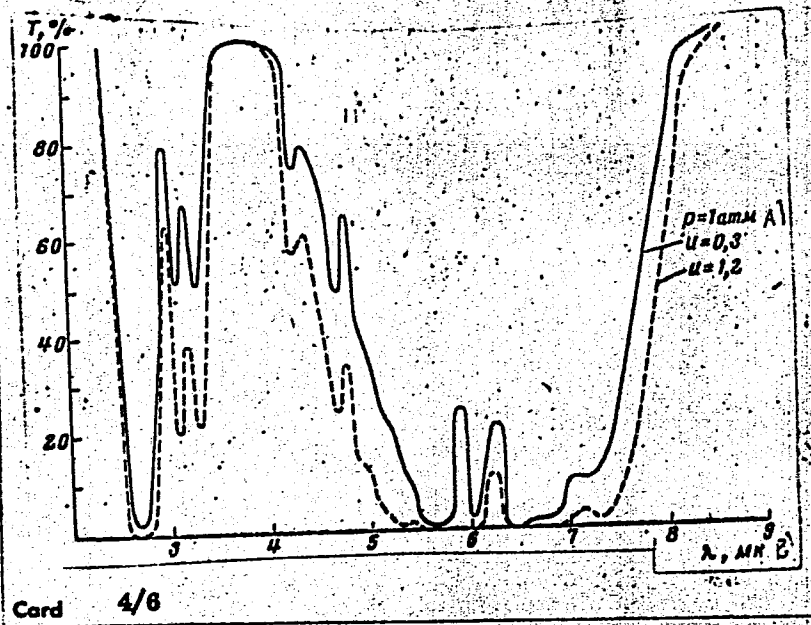


Fig. 2. Spectral transmission of radiation in the range 2-8.5μ by water vapor bands in the surface layer for two values of the precipitable layer of water; A) atm; B) μ.

Card 4/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66
ACCESSION NR: AT5011176 ENCL: 03

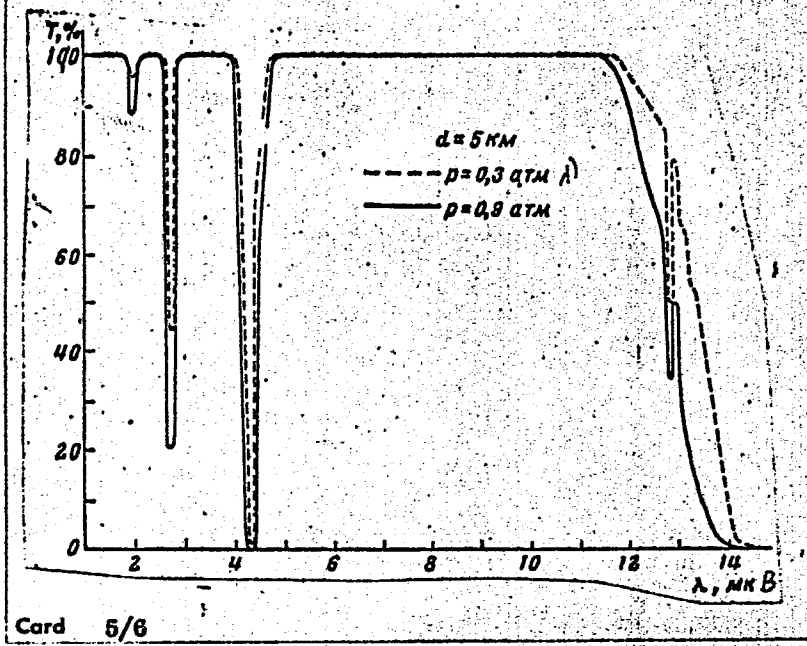


Fig. 3. Spectral transmission of radiation in the range 1-15μ by carbon dioxide bands at a distance d = 5 km at heights of 10 and 1 km. A) atm; B) μ.

Card 5/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 19394-66

ACCESSION NR: AT5011176

ENCL: 04

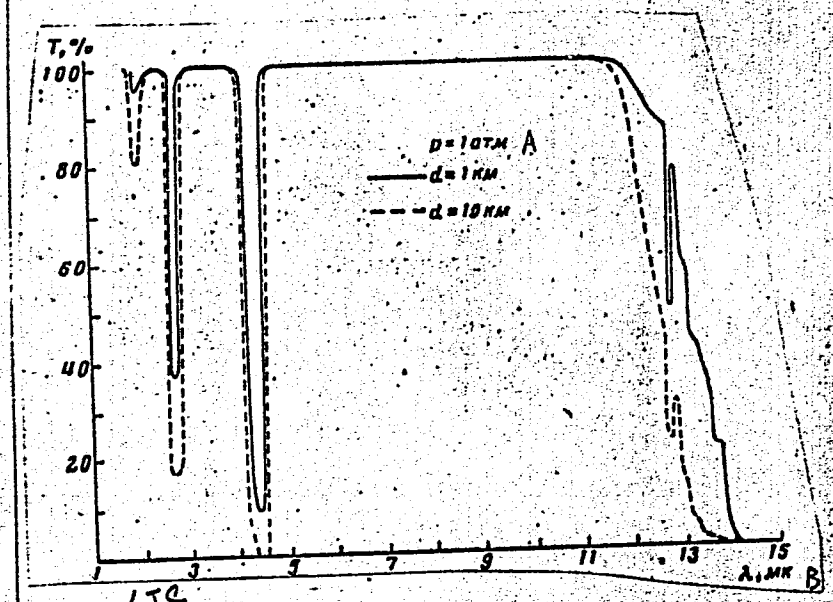


Fig. 4. Spectral transmission of radiation in the range 1-15μ by carbon dioxide bands in the surface layer at a distance d = 1 and 10 km. A) atm; B) μ.

Card 6/8

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

43210
S/020/62/147/003/002/027
B112/B186

16.3400

AUTHORS: Burago, Yu. D., Maz'ya, V. G., Sapozhnikova, V. D.

TITLE: Double layer potential for non-regular regions

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 523 - 525

TEXT: A convex region $\Omega \subset E^3$ with the boundary Γ is considered. Γ is projected from an arbitrary point P onto the unit sphere S_P with the center P by the continuous mapping $\pi_P(\Gamma)$. The absolute variation v_P^o of the mapping $\pi_P(\Gamma)$ is assumed to be uniformly bounded for all points $P \in E^3$. For any Borel set $\ell \subset \Gamma$, the "angle" $\omega(P,\ell)$ is defined in the following way: $\omega(P,\ell) = v_P(\ell)$ for $P \in \ell$, $\omega(P,\ell) = \omega(P,\ell \setminus P) + \omega(P,P)$, where $\omega(P,P) = 2\pi - \omega(P,\Gamma \setminus P)$, for $P \in \ell$. Here,

$$\|T\| = \frac{1}{2\pi} \sup_{S \in \Gamma} \int_\Gamma |\omega(S, dX)| \leqslant \frac{M}{2\pi} + 1.$$

Card 1/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

Double layer potential for...

where $n^{+}_{\varphi}(Y)$ and $n^{-}_{\varphi}(Y)$ are the numbers of the original points on $\mathcal{C}$ of the point $Y \in S_p$, the topological indices of which, referred to the mapping $\pi_p(\Gamma)$, are equal to +1 and -1, respectively. It is shown that

$$\omega(P,\Gamma) = \begin{cases} 4\pi, & \text{if } P \in \Omega; \\ 2\pi, & \text{if } P \in \Gamma; \\ 0, & \text{if } P \in C\overline{\Omega}. \end{cases}$$

The integral

$$W(P) = (1/2\pi)\int_{\Gamma} f(X)\omega(P,dX)$$

is called the potential of a double layer with the continuous density f(X). The internal and external limiting values of W(P) for $P \to S$, $S \in \Gamma$, are given by the expressions

$$W^{(i)}(S) = f(S) + (1/2\pi)\int_{\Gamma} f(X)\omega(S,dX),$$

$$W^{(e)}(S) = -f(S) + (1/2\pi)\int_{\Gamma} f(X)\omega(S,dX).$$

Card 2/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

Double layer potential for...

They are represented in the form

$$w^{(i)} = f + Tf, \quad w^{(e)} = -f + Tf.$$

The estimate

$$\|T\| = (1/2\pi)\sup_{S\in\Gamma} \int_{\Gamma} |\omega(S, dX)| \leq M/2\pi + 1$$

is derived. The Fredholm radius of the operator T is found to be equal to

$$2\pi \inf_{S\in\Gamma}(1/|\omega(S,S)|).$$

PRESENTED: June 9, 1962, by V. I. Smirnov, Academician

SUBMITTED: May 31, 1962

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

MAZ'YA, V. G.; SAPOZHNIKOVA, V. D.

Remark on the regularization of a singular system in the isotropic theory of elasticity. Vest. LGU 19 no.7:165-167 '64. (MIRA 17:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

S/081/62/000/022/035/088
B158/B101

AUTHORS: Yefimova, A. K., Shatunova, A. M., Sapozhnikova, Ye. A.

TITLE: Experience in industrial tests for corrosion inhibitors

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 307, abstract 22I200 (Novosti neft. i gaz. tekhn. Neftepererabotka i neftekhimiya, no. 2, 1962, 46 - 47)

TEXT: A number of corrosion inhibitors (CI) have been selected for protecting equipment in the petroleum industry from corrosion. These CI reduce the rate of corrosion of ferrous metals by 70 - 95 % and of tin brass by 50-60%. At present sulfosodium salts of shale tar and nitrogenous petroleum compounds are the most available CI. Introducing ammonia up to pH 7 - 9 reduces the CI consumption to 1/10 - 1/20. Data are given on the rate of corrosion of various metals in the condensation system of an atmospheric-vacuum pipe still during the processing of Tuymazino oil and on the efficiency achieved as a result of CI introduction. A particularly sharp fall in corrosion was found for Al, for which 99 % protection was obtained. [Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Ye.A.

Semiautomatic machine for simultaneous hot forming of the toe and heel parts of footwear made from Russian leather. Kozh. obuv. prom. 5 no.7:14 Jl '63. (MIRA 16:8)

(Shoe machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

YEFIMOVA, A.K.; SHATUNOVA, A.M.; SAPOZHNIKOVA, Ye.A.

Corrosion inhibitors for protecting the condensation-cooling apparatus of atmospheric and vacuum distillation units. Trudy Bash NIINP no.5: 165-175 '62. (MIRA 17:10)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Ye.M.

KOLOMIYTSEV, V.P., kand.med.nauk, SAPOZHNIKOVA, Ye.M.

Problems of surgery in paratonsillitis. Vrach.delo no.4:355-358 Ap '58 (MIRA 11:6)

1. Kafedra otorinolaringologii (zav. - zasl. deyatel' nauki, prof. Ya.A. Shvartsberg) Kiyevskogo meditsinskogo instituta i otdeleniye bolezney ukha, gorla i nosa Kiyevskoy gorodskoy klinicheskoy bol' nitsy imeni Oktyabr'skoy revolyutsii.
(THROAT--DISEASES)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

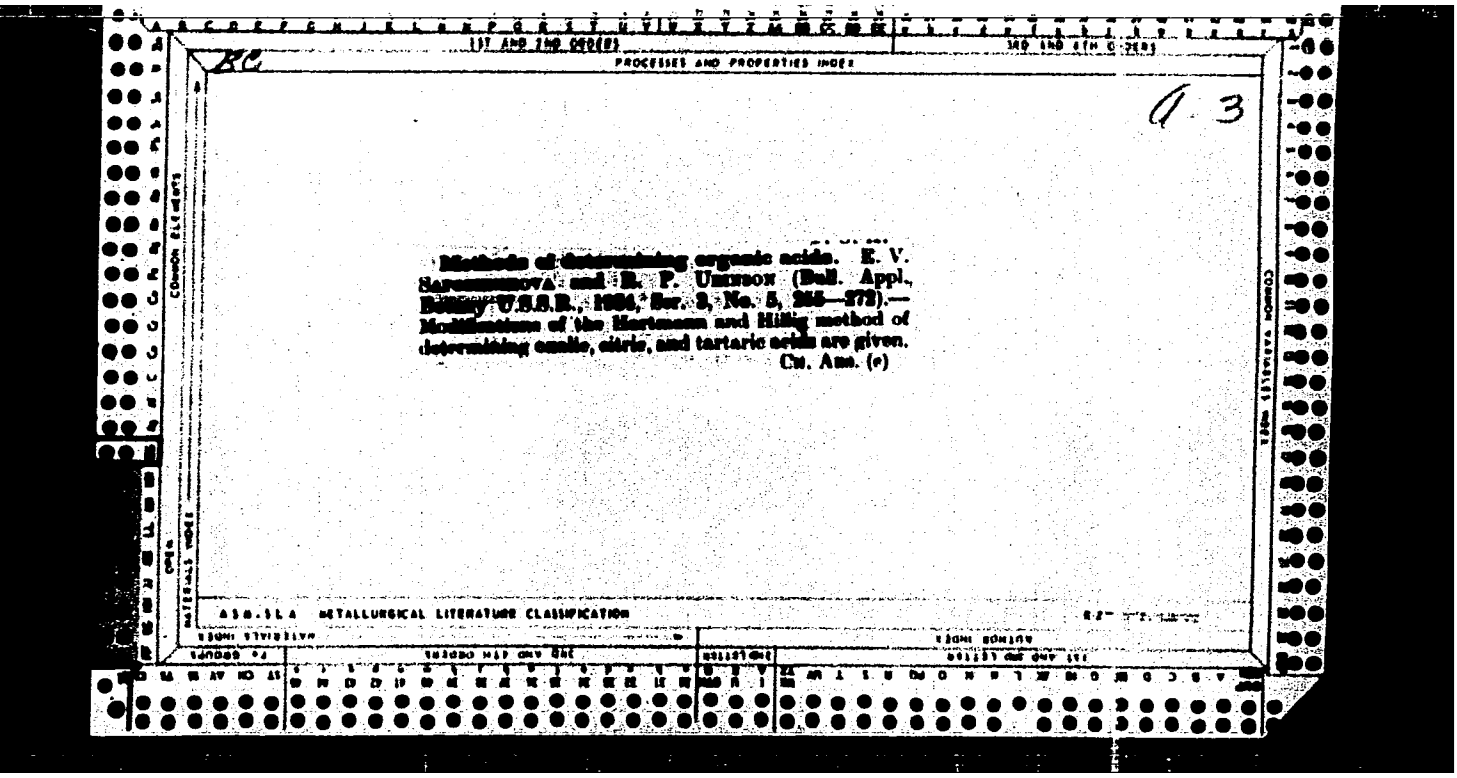
SAPOZHNIKOVA, Ye.Sh. [Sapozhnykova, IE.Sh.]

Psychological analysis of some conditions in the re-education of undisciplined pupils. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:252-256 '59. (MIRA 13:11)

1. Institut psikhologii, Kiyev.
(School discipline)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



RC

PROCESSES AND PROPERTIES INDEX

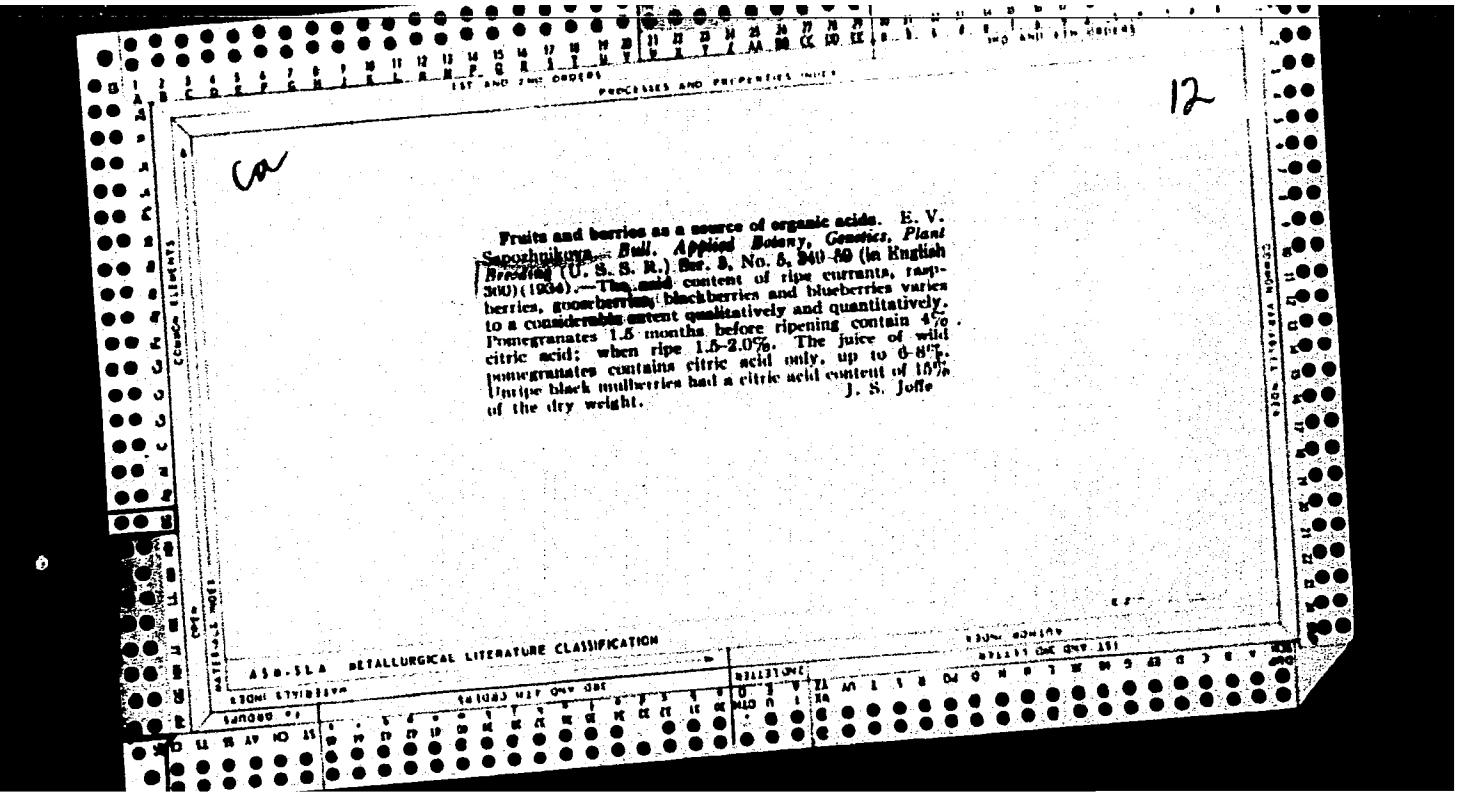
1 3

Methods of determining organic acids. E. V. Sarumnnova and B. P. Umnnov (Bull. Appl., Bashky. U.S.S.R., 1934, Ser. 3, No. 5, 265—272).—Modifications of the Hartmann and Hilliig method of determining oxalic, citric, and tartaric acids are given. Ch. Abs. (e)

A38-51A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



12

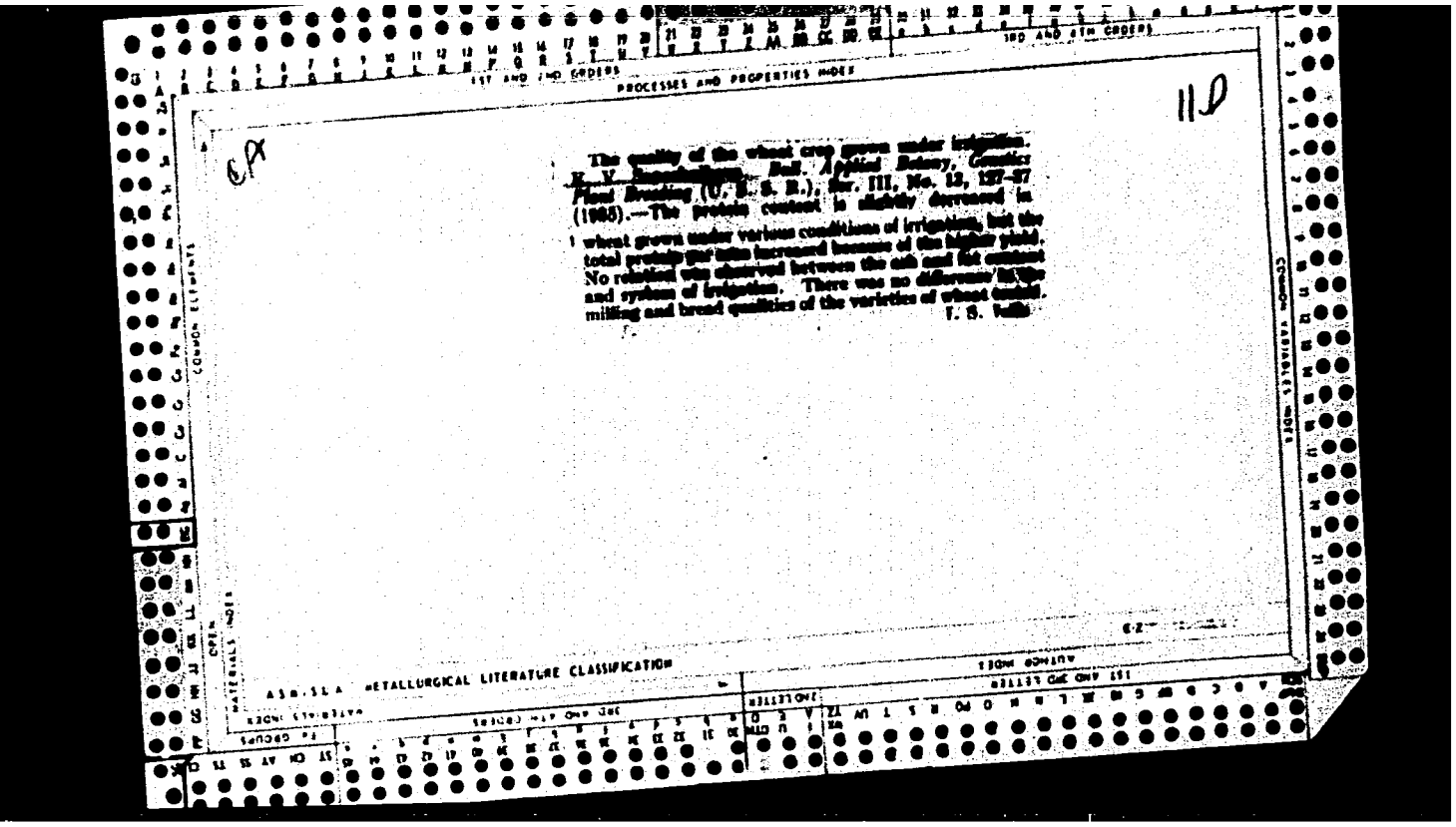
Ca

Fruits and berries as a source of organic acids. E. V. Sapozhnikova. *Bull. Applied Botany, Genetics, Plant Breeding* (U. S. S. R.) Ser. 3, No. 5, 340–80 (in English 300) (1934).—The acid content of ripe currants, raspberries, gooseberries, blackberries and blueberries varies to a considerable extent qualitatively and quantitatively. Pomegranates 1.5 months before ripening contain 4% citric acid; when ripe 1.5–2.0%. The juice of wild pomegranates contains citric acid only, up to 6-8%. Unripe black mulberries had a citric acid content of 10% of the dry weight. J. S. Joffe

A58-51A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



PROCESSES AND PROPERTIES INDEX

6X

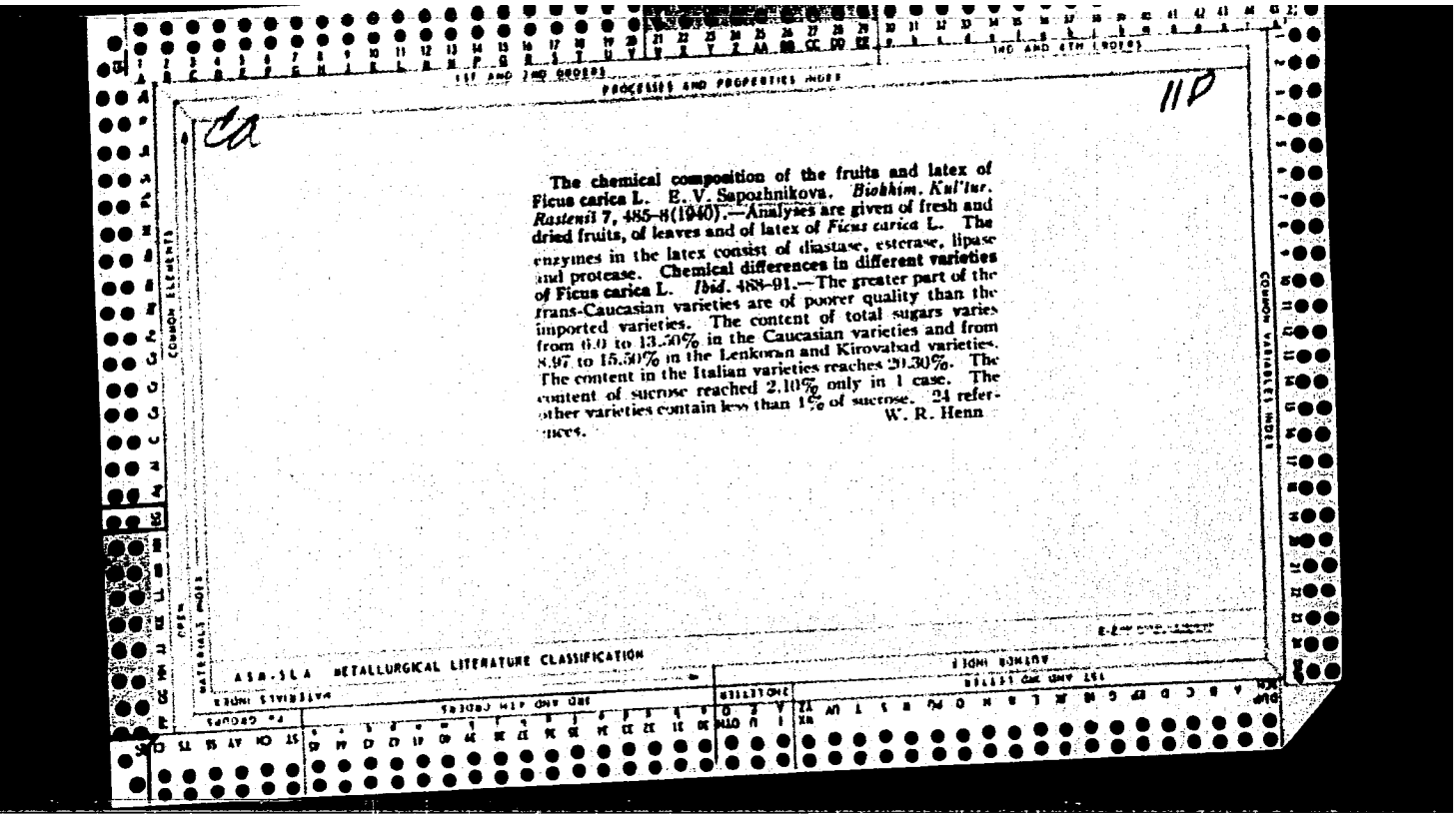
11D

The quality of the wheat crop grown under irrigation. K. V. Kondrashkina. Bull. Applied Botany, Genetics Plant Breeding (U. S. S. R.), Ser. III, No. 12, 127-57 (1935).—The protein content is slightly decreased in wheat grown under various conditions of irrigation, but the total protein per acre increased because of the higher yield. No relation was observed between the ash and fat content and system of irrigation. There was no difference in the milling and bread qualities of the varieties of wheat studied. F. S. Wells

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

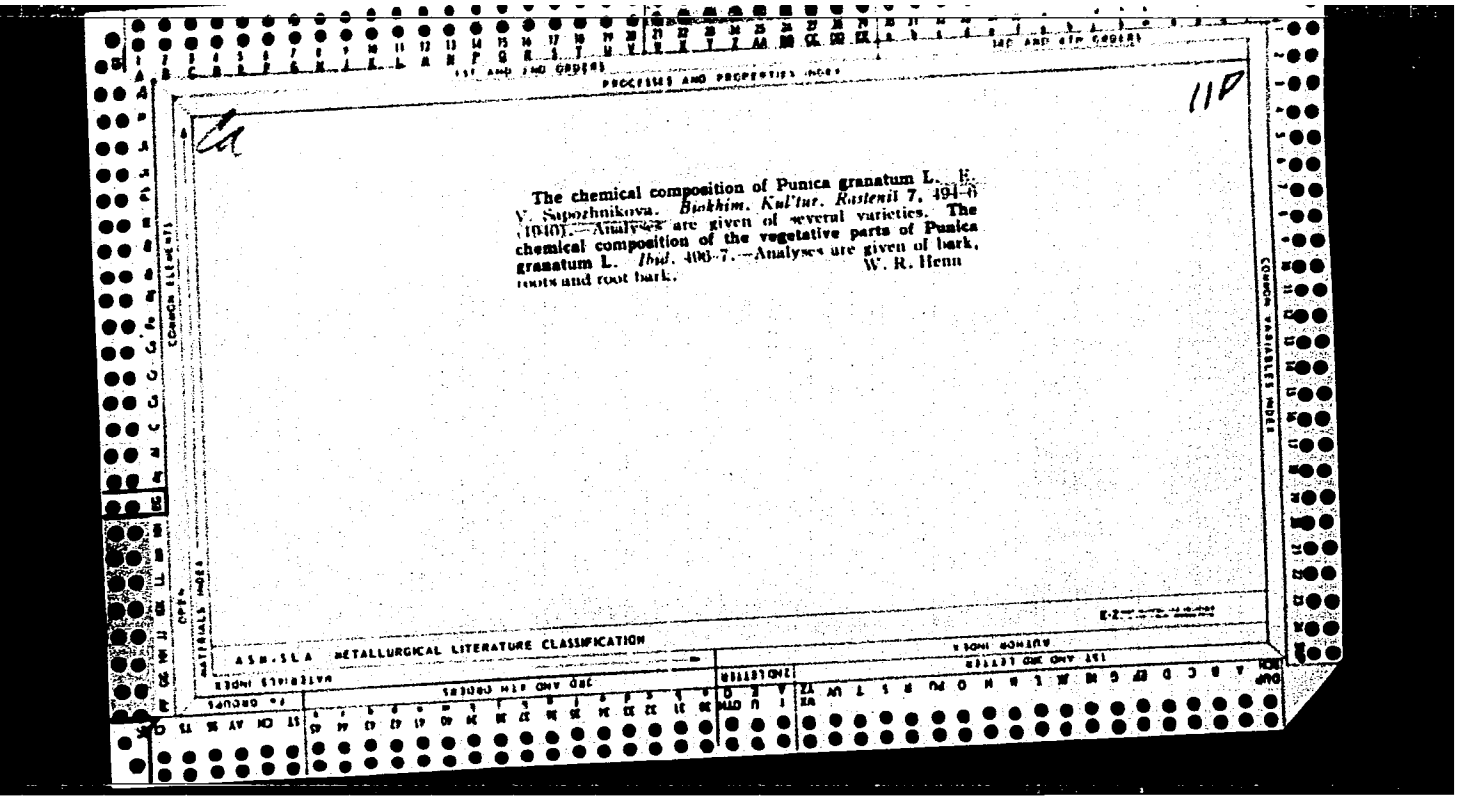


The chemical composition of the fruits and latex of Ficus carica L. E. V. Sapozhnikova. *Biokhim. Kul'tur. Rastenii* 7, 485–8(1940).—Analyses are given of fresh and dried fruits, of leaves and of latex of *Ficus carica* L. The enzymes in the latex consist of diastase, esterase, lipase and protease. Chemical differences in different varieties of Ficus carica L. *Ibid.* 488–91.—The greater part of the Trans-Caucasian varieties are of poorer quality than the imported varieties. The content of total sugars varies from 6.0 to 13.50% in the Caucasian varieties and from 8.97 to 15.30% in the Lenkoran and Kirovabad varieties. The content in the Italian varieties reaches 21.30%. The content of sucrose reached 2.10% only in 1 case. The other varieties contain less than 1% of sucrose. 24 references.

W. R. Henn

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

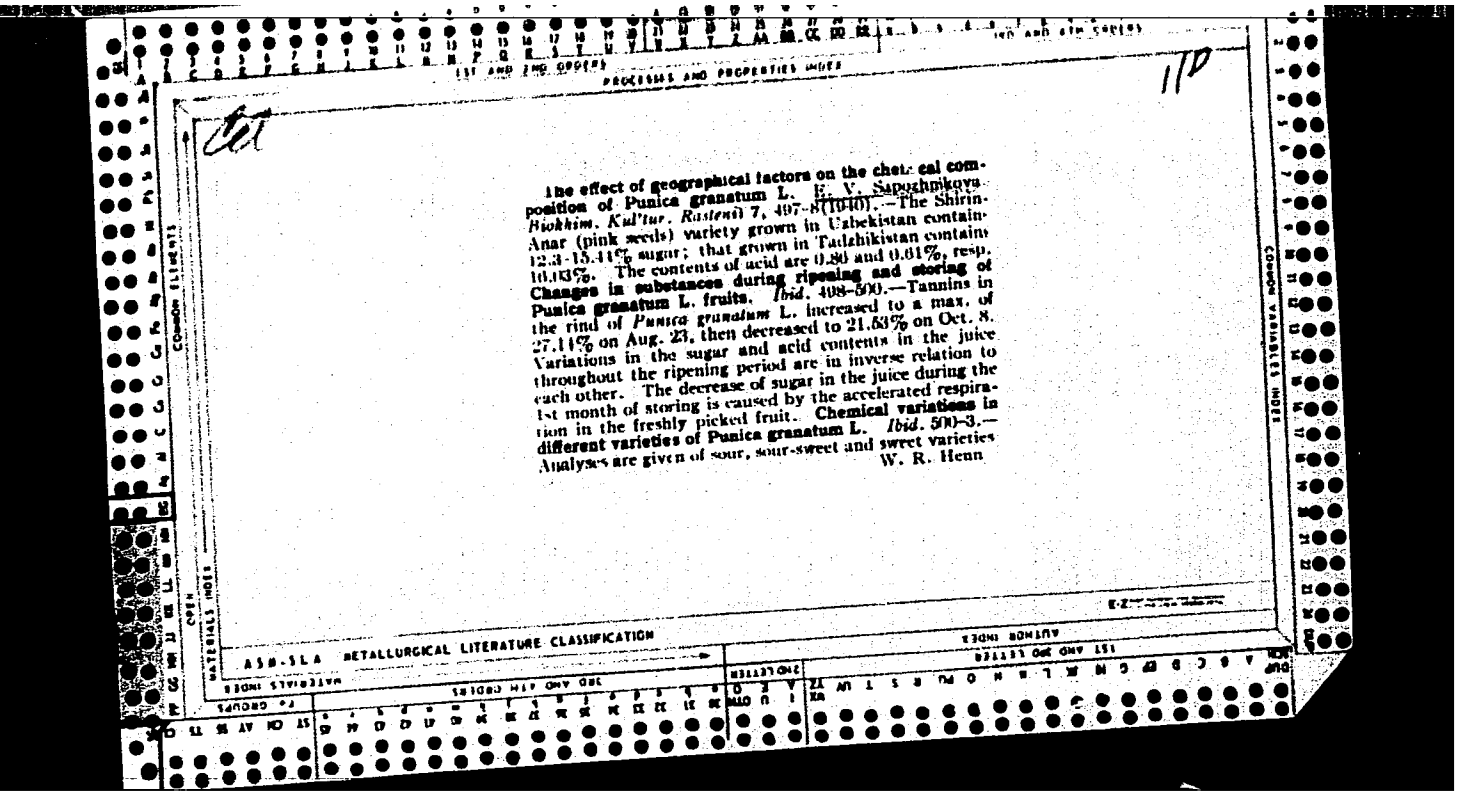
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



The chemical composition of Punica granatum L. E. V. Sapozhnikova. *Biokhim. Kul'tur. Rastenii* 7, 491–6 (1940).—Analyses are given of several varieties. The chemical composition of the vegetative parts of Punica granatum L. *Ibid.* 498–7.—Analyses are given of bark, roots and root bark. W. R. Henn

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



The effect of geographical factors on the chemical composition of Punica granatum L. E. V. Sapozhnikova. *Biokhim. Kul'tur. Rastenii* 7, 497–8(1940).—The Shirin-Anar (pink seeds) variety grown in Uzbekistan contains 12.3–15.44% sugar; that grown in Tadzhikistan contains 10.13%. The contents of acid are 0.80 and 0.61%, resp. **Changes in substances during ripening and storing of Punica granatum L. fruits.** *Ibid.* 498–500.—Tannins in the rind of *Punica granatum* L. increased to a max. of 27.14% on Aug. 23, then decreased to 21.53% on Oct. 8. Variations in the sugar and acid contents in the juice throughout the ripening period are in inverse relation to each other. The decrease of sugar in the juice during the last month of storing is caused by the accelerated respiration in the freshly picked fruit. **Chemical variations in different varieties of Punica granatum L.** *Ibid.* 500–3.—Analyses are given of sour, sour-sweet and sweet varieties. W. R. Henn

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

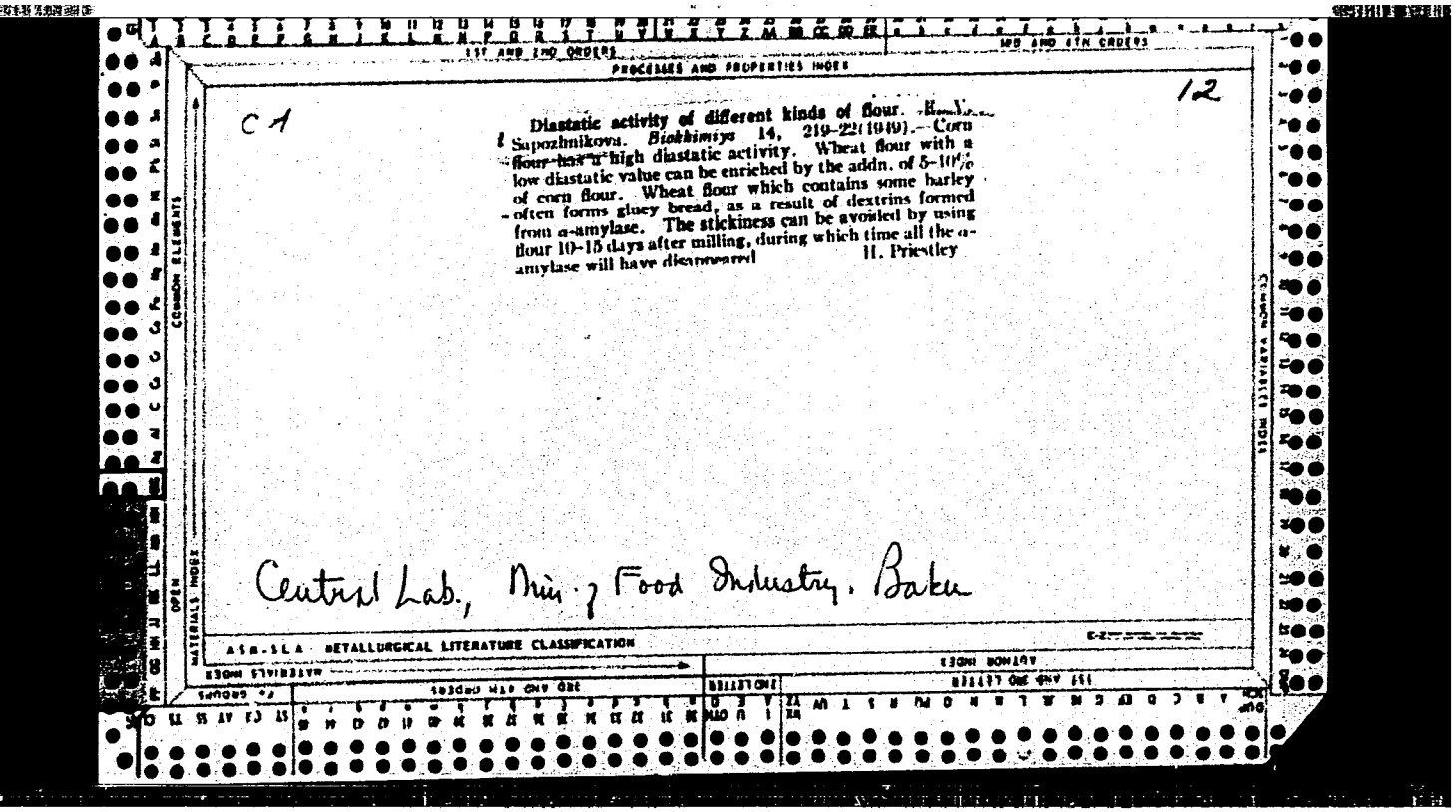
SAPOZHNIKOVA, E. V.
SAPOZHNIKOVA, E. V.

26443 Granatovyy sok. Trudy azerbaydzh. Nauch.-issled. In-ta mnogolet. Nasazhdeniy, T. 1, 1949. s. 6F-F-3- bibliogr: 14 nazv.

SO: LETOPIS' NO. 35, 1949

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



C1

12

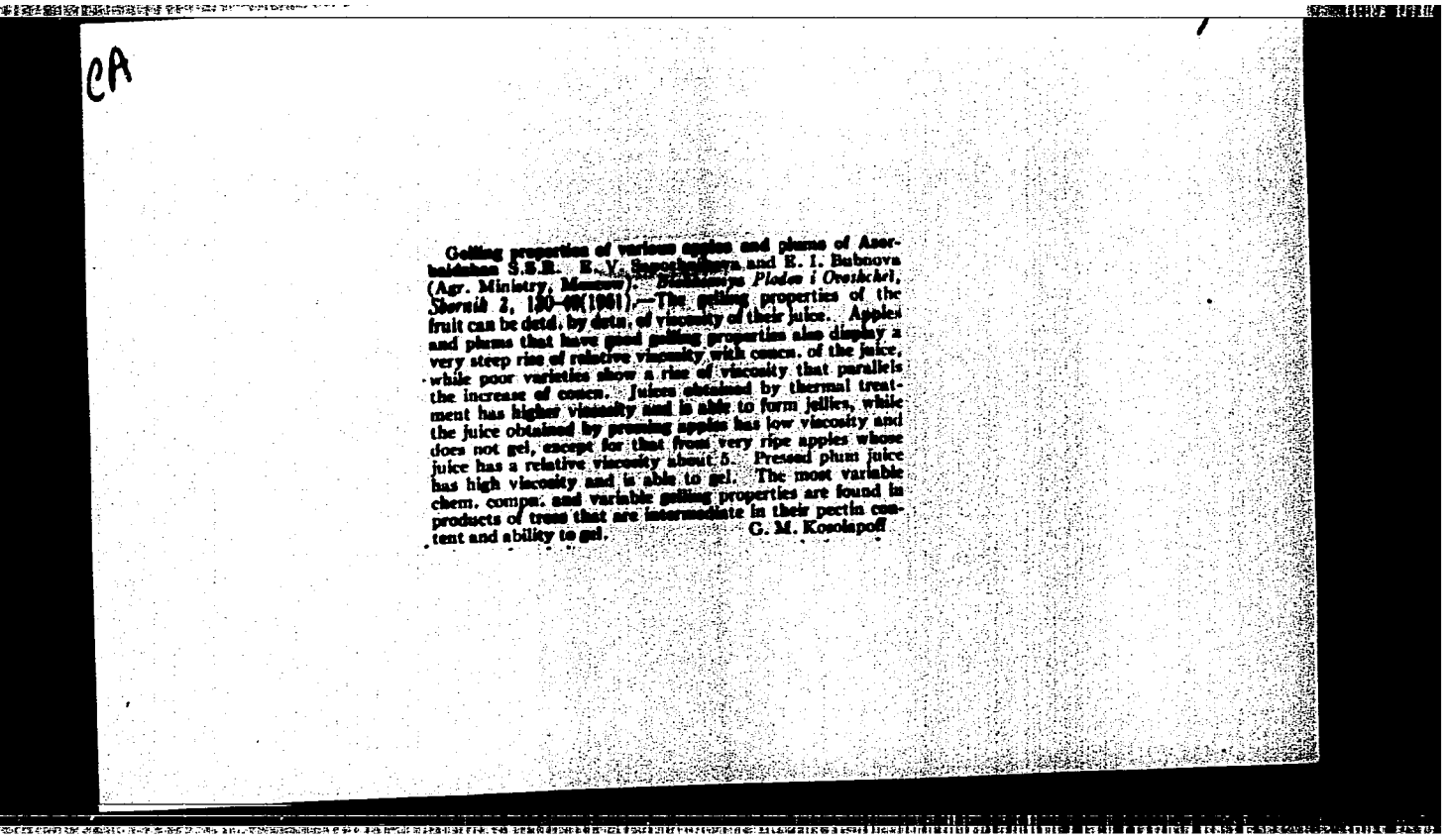
Diastatic activity of different kinds of flour. [illegible]
Sapozhnikova. *Biokhimiya* 14, 219-22(1949).—Corn flour has a high diastatic activity. Wheat flour with a low diastatic value can be enriched by the addn. of 5–10% of corn flour. Wheat flour which contains some barley often forms gluey bread, as a result of dextrins formed from α-amylase. The stickiness can be avoided by using flour 10–15 days after milling, during which time all the α-amylase will have disappeared H. Priestley

Central Lab., Min. of Food Industry, Baku

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



CA

Gelling properties of various apples and plums of Azerbaidzhan S.S.R. E. V. Sapozhnikova and E. I. Babnova (Agr. Ministry, Moscow). *Plodovodstvo Plodov i Ovoshchei, Sbornik* 2, 180–90(1961).—The gelling properties of the fruit can be detd. by data of viscosity of their juice. Apples and plums that have good gelling properties also display a very steep rise of relative viscosity with concn. of the juice, while poor varieties show a rise of viscosity that parallels the increase of concn. Juices obtained by thermal treatment has higher viscosity and is able to form jellies, while the juice obtained by pressing apples has low viscosity and does not gel, except for that from very ripe apples whose juice has a relative viscosity about 5. Pressed plum juice has high viscosity and is able to gel. The most variable chem. compn. and variable gelling properties are found in products of trees that are intermediate in their pectin content and ability to gel.

G. M. Kosolapoff

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, E.V.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Foods

Transformation of pectic substances in storage of apples. E. V. Sapozhnikova and A. Yunusov. *Doklady Akad. Nauk SSSR* 91, 603-6(1953).—In a variety of apples that stores well the ratio of protopectin:sol. pectin remains const.; but in poorly storable species there is a rapid transition into the latter form in storage, with increase of viscosity of the juice. The latter species have very active pectase and possibly polygalacturonase, which is readily manifested in autolysis expts. at pH 5.3–6.0. If the enzyme is inactivated by heat, no changes take place.
G. M. Kosolapoff

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Ye. V.

Peculiarities of carbohydrate metabolism of kernel and seed fruit species. Ye. V. Sapozhnikova. *Bioklim. Plodov i Ovoshchei, Akad. Nauk SSSR, Inst. Fiziol. Rastenii Biokhim., Sbornik* 3, 107–32(1955).—In pome fruits (apple and pear) the monose sugars predominate and the variability of total sugar depends largely on variations in the sucrose content. In stone fruits (cherry, plum, apricot, peach, almond) the sucrose content dets. the content of sugars only in apricot and peach since they are the only species in which sucrose predominates over the monoses. In these two species the enzymic transformation of sucrose in the fruit is directed toward synthesis of carbohydrates. The plum is intermediate between the apricot and cherry; in the plum the sucrose:monose ratio is either unity or the monoses predominate and the enzymic system of the plum is very labile, showing considerable variability of the net result of enzymic activity toward synthesis or hydrolysis. In the cherry sucrose is either absent or is low; the enzymic changes in sucrose are predominantly hydrolytic.

G. M. Kosolapoff

MD

Azerbaydzhan Sci-Res. Inst Perennial Plants, Min. Agric. SSSR

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

USSR/Cultivated Plants. Subtropical. Tropical. M-8

Abs Jour: Ref Zhur-Biologiya, No 5, 1958, 20541.

Author : Ye. Sapozhnikova, F. Ponomareva.
Inst : Not given.
Title : The Quality of Raw Tea in the Lenkorano-Astara Zone.
(O kachestve chaynogo syr'ya Lenkorano-Astarinskoy Zony).

Orig Pub: Sots. s. kh. Azerbaydzhana, 1957, No 6, 23-27.

Abstract: The raw tea of this zone is distinguished by its high chemical indices and large percentage of double leaf shoots, permitting high quality tea to be produced.

Card : 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Ye.V.

Biochemical study of ripening and storage of apples and the ripening of plums. Biokhim. pl. i ovoshch. no.4:88-111 '58. (MIRA 11:10)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut mnogoletnikh nasazhdeniy Ministerstva sel'skogo khozyaystva SSSR.
(Fruit--Ripening) (Fruit--Storage)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZNIKOVA, YE. V. (USSR)

"Importance of the Pectins and their Conversions in the Metabolism of Fruit-Bearing Plants."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Ye.V.; FATALIYEVA, S.M.

Variability of biochemical characters in fruit and berry crops.
Biokhim.pl.i ovoshch. no.6:175-184 '61. (MIRA 14:6)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut sadovodstva, vinogradarstva i subtropicheskikh kul'tur.
(Fruit--Chemical composition)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

GASANOV, A.S.; BABAYEV, A.Z.; SAPOZHNIKOVA, Ye.V.; KAPLAN, B.G.

Important landmark in the development of biochemistry; on the 5th International Congress of Biochemistry. Izv.AN Azerb. SSR.Ser.biol.i med.nauk no.6:115-126 '62. (MIRA 15:12)
(BIOCHEMISTRY--CONGRESSES)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Yekaterina Vasil'yevna; METLITSKIY, L.V., otv. red.; KRASIL'NIKOVA, G.V., red.

[Pectin substances in fruit] Pektinovye veshchestva plodov. Moskva, Nauka, 1965. 180 p. (MIRA 18:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Z.D.

Roentgenotherapy of bronchial asthma by way of reaction on the nervous system; preliminary report. Vest.rent.i rad. no.6:30-32 N-D '53. (MLRA 7:1)

1. Iz Tomskogo nauchno-issledovatel'skogo instituta fizicheskikh metodov lecheniya i kurortologii (direktor - kandidat meditsinskikh nauk dotsent N.P.Vladimirov; nauchnyy rukovoditel' - kandidat meditsinskikh nauk A.S.Saratikov).

(X-rays--Therapeutic use) (Asthma)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPOZHNIKOVA, Z.D.; BURNASHEV, I.G.

Modification of the orthodiagraph. Vest. rent. i rad. no.5:79 S-O '54. (MLRA 7:12)

1. Iz Tomskogo oblastnogo nauchno-issledovatel'skogo instituta fizicheskikh metodov lecheniy i kurortologii (dir. dotsent N.P. Vladimirov, nauchnyy rukovoditel' prof. A.S.Saratikov)
(ROENTGENOGRAPHY, apparatus and instruments, orthodiagraph, modified)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

ALIBEKOV, B.I.; LIBENGARTEN, B.M.; SAPOZHOK, V.M.; AMIROV, A.D.; spets. red.; RASHEVSKAYA, T.A., red.

[Petroleum production by the open method; based on a study of the Kirmaku Oil Field] Dobycha nefti otkrytym sposobom; na primere mestorozhdeniia Kirmaku. Baku, Azerneshr, 1964. 122 p. (MIRA 17:12)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SOKOV, Yu.I.; SAPOZHOK, V.M.

Effect of the withdrawal of liquid on the success of water exclusion operations. Izv. vys. ucheb. zav.; neft' i gaz 8 no.6:117-119 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPP, J. E.

Poland/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6270

Author: Sapp, J. E.

Institution: None

Title: Production of Semichemical Pulp

Original Publication: Przegl. papiern., 1955, 11, No 12, 374-377

Abstract: A translation. See Referat Zhur - Khimiya, 1954, 33484

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

AKHUNDOV, A.R.; SAPPO, P.V.

Distribution of microelements in formation waters in the producing series of the Balakhan'-Sabunchi-Ramany field. Azerb.neft.khoz. 39 no.8:9-11 Ag '60. (MIRA 13:11)
(Apsheron Peninsula--Trace elements)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPPO, P.V.

Composition of rubidium and cesium in formation waters of the producing formation in the Surakhany and Balakhany-Sabunchi-Ramany deposits. Trudy AzNII DN no.10:206-211 '60. (MIRA 14:4)
(Apsheron Peninsula--Rubidium) (Apsheron Peninsula--Cesium)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRANOV, M., inzh.

Attachment for plowing under the stubble remnants of corn. Zemledelie 26 no.9:86 S '64. (MIRA 17:11)

1. Korochanskoye rayonnoye ob"yedineniye "Sel'khoztekhnika" Belgorodskoy oblasti.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

BYSTROV, A.A.; BYSTROVA, O.M.; SAPRYKINA, K.A., otvetstvennyy redaktor; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[The operation of mine piston compressor installations] Ekspluatatsiia rudnichnykh porshnevykh kompressornykh ustanovok. Moskva, Ugletekhizdat, 1954. 462 p. [Microfilm] (MLRA 8:4)
(Air compressors) (Mining machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRI, A. D.

PA 160T63

USSR/Metals - Steel
Nickel, Determination

Apr 50

"Employment of Aqueous Solution of Dimethyl Glyoxime in Determination of Nickel in Steels," A. D. Sapri, Chelyabinsk Metallurgical Plant, 1 p

"Zavod Lab" Vol XVI, No 4

Suggests using aqueous solution of dimethyl glyoxime for precipitation of nickel. This less expensive reagent gives good results. The 0.5% solution of dimethyl glyoxime may be prepared without difficulty in hot water at temperature of 85-90°.

160T63

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRIK, N.I., inzhener.

On the suppression of radio noise created by electric equipment in factories. Vest. elektroprom. 28 no.3:79-80 Mr '57. (MIRA 10:4)

1. Nauchno-issledovatel'skiy institut elektropromyshlennosti.
(Radio--Noise)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

LAVRINOVICH, L.L., kand.tekhn.nauk; SAPRIK, N.I., inzh.

Measuring devices and systems of British manufacture. Vest. elektroprom. 32 no.6:75-80 Je '61. (MIRA 16:7)
(Great Britain--Electronic measurements)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRIN, A.N.; KLOCHKO, E.V.; KRUGLYAKOVA, K.Ye.; CHIBRIKIN, V.M.; EMANUEL', N.M.

Effect of the inhibitors of radical reactions on the kinetics of the change in free radical content in the organs of mice in experimental leukemia. Dokl. AN SSSR 166 no.3:746-748 Ja '66. (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Emanuel'). Submitted August 27, 1965.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

ALEKSEYENKO, L.A.; SAPRINA, G.G.; SEREBRENNIKOV, V.V.

Complex formation in aqueous systems rare earth iodide - iodine. Zhur. neorg. khim. 5 no. 12:2824-2826 D '60. (MIRA 13:12)

(Rare earth iodides) (Iodine)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

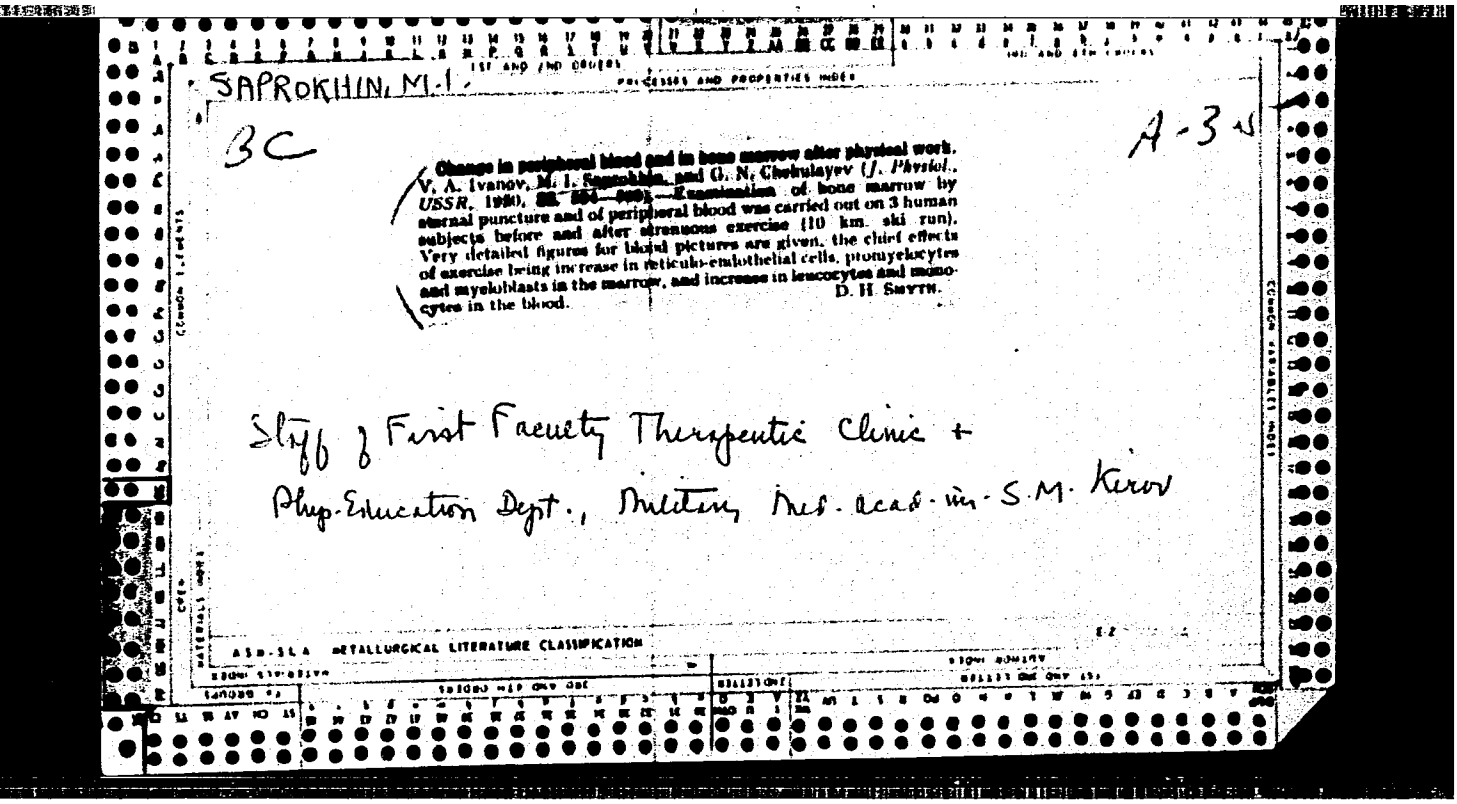
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M. I.

"Effect of the Stimulus of the Cerebellum on the Excitability (Rheobase and Chronaxia) of the Tissue of the Cerebral Hemispheres," Iz. Ak. Nauk SSSR, Ser. Biol., No. 5, 1949. Chair Physiology, Military-Medical Academy im. S. M. Kirov, -1949-. (Submitted 27 June 1949)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



SAPROKHIN, M. I.

BC

A-3 u

Change in peripheral blood and in bone marrow after physical work. V. A. Ivanov, M. I. Saprokhin, and G. N. Cheknlayev (*J. Physiol., USSR*, 1950), [illegible]—Examination of bone marrow by sternal puncture and of peripheral blood was carried out on 3 human subjects before and after strenuous exercise (10 km. ski run). Very detailed figures for blood pictures are given, the chief effects of exercise being increase in reticulo-endothelial cells, promyelocytes and myeloblasts in the marrow, and increase in leucocytes and monocytes in the blood. D. H. Smyth.

Staff of First Faculty Therapeutic Clinic + Phys-Education Dept., Military Med. Acad. im. S. M. Kirov

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M.I.

Excitability (rheobase and chronaxy) of the cerebellum in the cat.
Mat. po evol. fiziol. 3:80-87 '58. (MIRA 12:4)
(CEREBELLUM) (CHRONAXIA)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M.I.

Transmission of efferent influences from the cerebellum through posterior nerve roots to the living heart of warm-blooded animals. Mat. po evol. fiziol. 3:88-97. '58. (MIRA 12:4)
(CEREBELLUM) (SPINAL CORD) (HEART)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M.I.

Effect of stimulation of the stellate ganglion on the living heart of warm-blooded animals. Mat. po evol. fiziol. 3:98-101 '58.
(MIRA 12:4)

(NERVOUS SYSTEM, SYMPATHETIC)
(HEART)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M.I.; BREYDO, G.Ya.; OSTROUMOV, N.A. [deceased]

Influence of the cervical sympathetic nerve on respiratory reflexes during stimulation of the vagus nerve; influence of the sympathetic nerve on afferent nerve cells. Mat. po evol. fiziol. 3:102-109 '58. (MIRA 12:4)

(RESPIRATION)
(VAGUS NERVE)
(NERVOUS SYSTEM, SYMPATHETIC)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPROKHIN, M.I.

Effect of stimulation of the cephalic portion of the cervical sympathetic nerve on the function of the bladder. Mat. po evol. fiziol. 3:110-114 '58. (MIRA 12:4)

(NERVOUS SYSTEM, SYMPATHETIC)
(BLADDER)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

5

SAPROKHIN, M.I.

SAPROKHIN, M.I., KARMANOVA, I.G., KLYONOV, E.N., REYDLER, R.M. SAVVIN, N.G., FLEGONTOVA, N.P.

"On the role of sympathetic nervous system and cerebellum in regulation of muscles activity."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

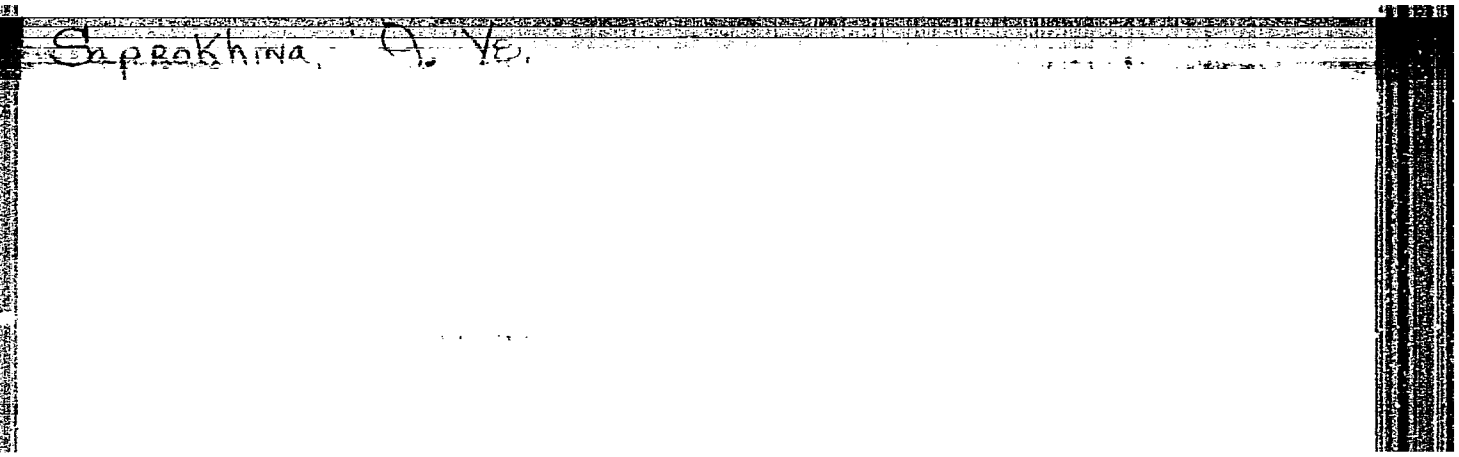
"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

KLEYMENOV, A., inzh.; SHIRYAYEV, Yu., inzh.; SAPROKHIN, V.

The "Elektron-2" receiver. Radio no.5:47-48 My '65. (MIRA 18:5)

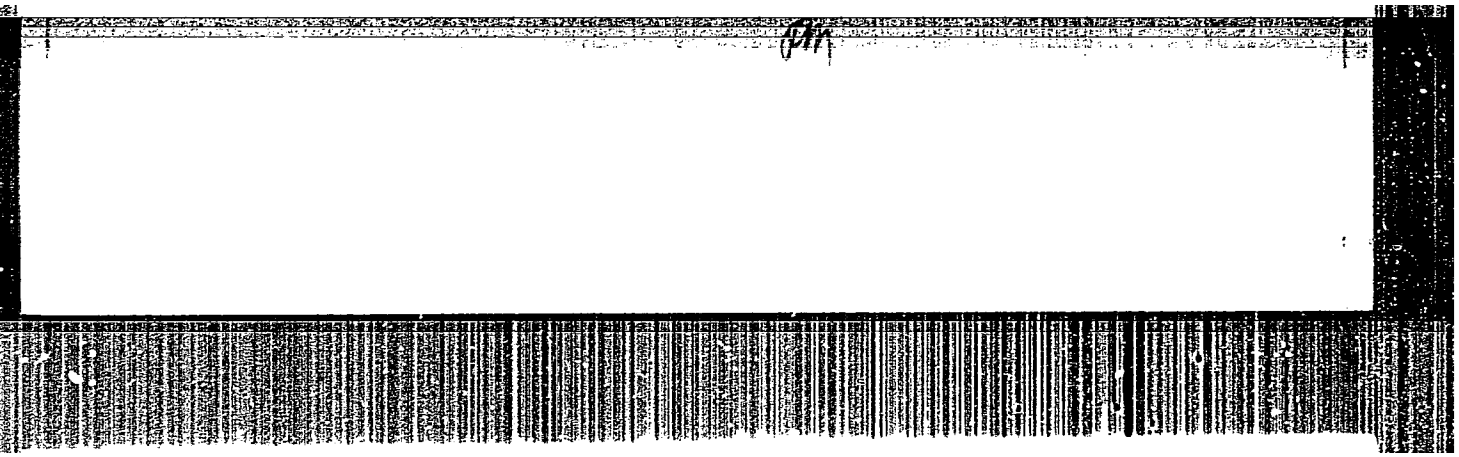
APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4



APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRON, A.E.

Device for checking thermal coils. Avtom., telem. i sviaz' 4 no.10: 33 O '60. (MIRA 13:10)

1. Starshiy elektromekhanik Groznenskoy distantsii signalizatsii i svyazi Severo-Kavkazskoy dorogi.
(Electric coils)
(Telephone, Automatic—Equipment and supplies)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAFRON, A.E.

SAFRON, A.E., starshiy elektromekhanik

Simplified set for selective ringing in an automatic telephone system. Avtom. telem. i sviaz' 5 no.9:32-33 S '61.
(MIRA 14:10)

1. Groznenskaya distantsiya signalizatsii i svyazi Severo-Kavkazskoy dorogi.
(Telephone, Automatic--Equipment and supplies)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A., polkovnik

T[illegible]n good sergeants with care. Komm. Vooruzh. Sil 4 no. 10: 55-56 My '64. (MIRA 17:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

ANTROPOV, Ye.T.; SAPRONOV, A.A.

Simple transducers for shock tubes. Teplofiz. vys. temp. 2 no.3: 482-484 My-Je '64. (MIRA 17:8)

1. Fizicheskiy institut imeni Lebedeva.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 42186-66 EWT(1) GD

ACC NR: AT6008931 SOURCE CODE: UR/0000/65/000/000/0277/0285

AUTHOR: Sapronov, A. K.

ORG: none

TITLE: Ferrite-and-transistor elements in the logic circuits, power-supply units, and output units of relay protections

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 277-285

TOPIC TAGS: ferrite switch, logic circuit, power supply, power line protection electric protective equipment

ABSTRACT: Various applications of ferrite-and-transistor elements in electric-power protection systems are briefly considered. In the logic circuits, the clock frequency is selected between 1 and 2 kc; the number of serial write-read operations is 4 to 8. The filter capacitance, in the power-supply rectifier, is selected as a compromise between the mean and maximum-combined loads

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 42186-66

ACC NR: AT6008931

imposed by the logic circuit. A simple voltage-regulating-diode circuit (used in the 500-kv line protective system) ensures an output-voltage variation of only ± 0.4 v when the temperature is varied within −15+50C and input voltage, within ± 20%. Synchronized clock blocking oscillators are used for supplying the pulsed logic circuits. Possible circuits for semiconductor-device contactless control of the h-v circuit-breaker trip coil are briefly discussed; here, silicon thyristors controlled by a single-cycle ferrite-transistor circuit are recommended. Orig. art. has: 3 figures and 7 formulas.

SUB CODE: 09 / SUBM DATE: 14Jul65 / ORIG REF: 005

Card 2/2 MLP

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 04477-67 EWT(1) GD

ACC NR: AT6008930 SOURCE CODE: UR/0000/65/000/000/0266/0276

AUTHOR: Nadezhdin, V. V.; Sapronov, A. K.; Sirotko, V. K. 8

ORG: none B+1

TITLE: Contactless semiconductor distance protection for 500-kv lines which uses Hall sensors and ferrites

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 266-276

TOPIC TAGS: transmission line protection, power line protection, distance protection, electric protective equipment, semiconductor device, ferrite

ABSTRACT: An experimental model of a new 500-kv-line phase-to-phase protection is described, characteristics of its elements are given, and the results of preliminary tests are reported. The protective system comprises measuring, logical, output, and power-supply units. The measuring unit contains an initiating

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 04477-67

ACC NR: AT6008930

element and 3 distance elements for each of two protection zones. The initiating element operates only on appearance of negative- and zero-phase-sequence components (it is assumed that an unsymmetrical fault always precedes the 3-phase fault). Each voltage component, proportional to a corresponding phase-sequence current, is rectified, smoothed, and applied to a resistive divider, which serves for obtaining different distance settings. Directional distance elements are used for the first zone, and simple distance elements for the 2nd. Two Hall generators with voltage stabilizers are used as a phase-sensitive device; outputs of these devices are connected to a ferrite-transistor balance detector. Principal connection diagrams and technical parameters are given. Laboratory tests revealed a maximum spread of operating impedance of 1% and an operating time of 25—30 msec. Orig. art. has: 4 figures, 9 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 14Jul65 / ORIG REF: 005

Card 2/2 egk

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.K.

SAPRONOV, A.K.

Plywood box of simplified construction. Khleb.i kond.prom. 1 no.8:37-39 Ag '57. (MLRA 10:8)

1. Voronezhskiy drozhzhevoy zavod.
(Boxes)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

SAPRONOV, A.R.

Link splice for V-belts. Spirt.prom. 23 no.6:33-34 '57.
(MIRA 10:12)

(Belts and belting)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

Sewing V-belts. Sakh.prom. 31 no.7:36-37 Jl '57. (MLRA 10:8)
(Belts and belting)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

VASILEGA, V.S.; IVANOV, S.Z.; SAPRONOV, A.R.

Good manual for students and factory workers. Sakh. prom. 35 no. 5:75-78 My '61. (MIRA 14:5)
(Sugar manufacture)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

New condensate outlet. Sakh.prom. 35 no.6:76-78 Je '61. (MIRA 14:6)

(Germany, West—Sugar machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

Light diffusion in aqueous sucrose solutions. Izv.vys.ucheb.-zav.; pishch.tekh. 2:30-34 '62. (MIRA 15:5)

1. Voronezhskiy tekhnologicheskiy institut, kafedra tekhnologii sakharistykh veshchestv.
(Sucrose--Optical properties)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

VASILEGA, V.S.; IVANOV, S.Z.; SAPRONOV, A.R.

"Technology of sugar manufacture from sugar beets" by I.M.Litvak. Reviewed by V.S.Vasilega, S.Z.Ivanov, A.R.Sapronov. Izv.vys.-ucheb.zav.; pishch.tekh. 2:160-162 '62. (MIRA 15:5)
(Sugar manufacture) (Litvak, I.M.)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R., prepodavatel', gornyy inzh.; LEBEDEVA, V.P., nauchnyy red.; ORLOV, A.B., tekhn. red.

[Outline of principles of geodesy and mine surveying; courses for mine foremen in technical schools of construction for mine haulage]Konspekt po predmetu "Osnovy geodezii i marksheiderskogo dela" dlia kursov gornykh masterov v tekhnicheskikh shkolakh transportnogo stroitel'stva. Moskva, 1960. 139 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.)Ministerstvo transportnogo stroitel'stva. Upravleniye kadrov i uchebnykh zavedeniy. Uchebno-metodicheskiy kabinet. 2. Yeletskaya tekhnicheskaya shkola (for Sapronov).

(Mine surveying)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

Spectrophotometric investigation of sucrose caramelization. Izv.-vys.ucheb.zav.; pishch.tekh. no.1:33-37 '63. (MIRA 16:3)

1. Voronezhskiy tekhnologicheskiy institut, kafedra tekhnologii sakharistykh veshchestv.
(Spectrophotometry) (Sucrose) (Caramel)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.; CHIKIN, G.A.; MELESHKO, V.P.; KLOCHKOVA, T.A.

Sorption of dyeing substances by ion exchangers. Sakh.prom. 36 no.11: 15-17 N '62. (MIRA 17:2)

1. Voronezhskiy tekhnologicheskiy institut (for Sapronov). 2. Laboratoriya ionoobmennykh protsessov Voronezhskogo soveta narodnogo khozyaystva (for Chikin, Meleshko, Klochkova).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

Determining the purity of granulated sugar. Sakh.prom. 38 no.1:17-20 Ja '64. (MIRA 17:2)

1. Voronezhskiy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

IVANOV, S.Z.; SAPRONOV, A.R.; CHERNIKINA, V.G.

Improving the method for determining the chromaticity of sugar products. Sakh. prom. 37 no.10:5-11 O '63. (MIRA 16:12)

1. Voronezhskiy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.R.

Physicochemical structure of saccharose solutions. Sakh.prom. 38 no.2: 17-20 F '64. (MIRA 17:3)

1. Voronezhskiy tekhnologicheskiy institut.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

BABIY, A.A.; STARSHINOV, B.N.; ONOPRIYENKO, V.P.; NEZHNOV, G.N.; KUSHNAREV, A.P.; KONAREVA, N.V.; Prinimali uchastiye: FLOROV, K.N.; BUDINSKIY, G.M.; VYSOCHIN, I.Ye.; OKOLELOV, A.N.; STRYGIN, V.I.; AFANAS'YEV, A.A.; SAPRONOV, B.V.

Desulfurizing and dephosphorizing cast iron in the ladle. Sbor. trud. UNIIM no.11:90-95 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

STARSHINOV, B.N.; SINITSKIY, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.; KHORUZHIY, A.G.; Prinimali uchastiye: OSTROUKHOV, M.Ya.; SAVELOV, N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; LAVRENT'YEV, M.L.; TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.; FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV, M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.; SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.; SAPRONOV, B.V.; LEKAREV, V.L.; STOLYAR, V.V.; PROKHORENKO, Z.A.; BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast furnaces. Sbor. trud. UNIIM no.11:34-46 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, A.T.

LUKANIN, Ye.A., polkovnik; CHEREDNICHENKO, V.T., polkovnik; LESNEVSKIY, S.A., polkovnik; KOLOTOV, V.I., kapitan 1 ranga; KORKESHKIN, A.P., polkovnik; POROFONOV, I.F., podpolkovnik; ROZANOV, I.S., podpolkovnik; LISENKOV, M.M., podpolkovnik; SAPRONOV, A.T., mayor; BELASHCHENKO, T.K., mayor; SKAPENKOVA, T.N.; SOROKINA, L.D.; ZOTOV, M.M., polkovnik, red.; MYASNIKOVA, T.F., tekhn.red.

[Material for political studies; a manual for group leaders] Materialy k politicheskim zaniatiiam v pomoshch' rukovoditeliam grupp. Moskva, Voen.izd-vo M-va obor. SSSR, 1958. 199 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Armiya. Upravleniye propagandy i agitatsii. 2. Voyennyy otdel Gosudarstvennoy biblioteki imeni V.I.Lenina (for Skapenkova, Sorokina)
(Russia--Army--Education, Nonmilitary)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 06338-67 EWP(j)/EWT(m)/EWP(t)/ETI IJP(c) RM/WE/JD/WB
ACC NR: AP6030328 (N) SOURCE CODE: UR/0153/66/009/003/0507/0510

AUTHOR: Pasechnik, S. Ya.; Sapronov, D. R. 43 13

ORG: Department of Technology of Metals and Structural Materials, Voronezh Technological Institute (Kafedra tekhnologii metallov i konstruktsionnykh materialov, Voronezhskiy tekhnologicheskiy institut)

TITLE: Corrosion of carbon steel in corrosive media in the presence of inhibitors

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 3, 1966, 507-510

TOPIC TAGS: carbon steel, corrosion, corrosion inhibitor

ABSTRACT: The corrosion of carbon steel (0.17% C, 0.44% Mn, 0.23% Si, 0.029% S, 0.021% P, 0.03% Cr, 0.05% Ni) specimens 30 x 20 x 1.2 mm was studied at 20°C in aqueous solutions of calcium chloride containing the inhibitors potassium dichromate, wetting agent OP-10, motor fuel, and a foaming agent and its fractions. The foaming agent, a waste product of synthetic rubber plants, consists of the residue obtained after distilling off the butyl fraction from higher alcohols, and in addition to the higher alcohols (C_4, C_6, C_8, etc.) contains a large amount of hydrocarbonds, higher aldehydes, esters, and resins. All the inhibitors were found to slow down the corrosion considerably, but the most effective inhibitor was the foaming agent. Its protective film insulates the cathodic areas and hinders the formation of galvanic microcouples; the film, formed by a mixture of organic substances, is very plastic and able

Card 1/2 UDC: 620.197.1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

L 06338-67
ACC NR: AP6030328

to re-form wherever it has been damaged. The foaming agent promotes a uniform distribution of corrosion over the entire surface of the specimen, so that no local corrosion is observed. Separate fractions of the foaming agent all had an inhibiting effect, but none was as effective as when all were present together. The protective properties of the foaming agent are most pronounced at pH 11 and temperatures up to 60°C. Orig. art. has: 4 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 30Oct64/ ORIG REF: 004

Card 2/2 mlE

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

1. SAPRONOV, I, Eng.; MORDASOV, I.
2. USSR 600
4. Motor Trucks
7. 300,000 kilometers without major repairs, Tekh. molod, 21, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOVA, M.; TRAPEZNIKOV, A.; SOBOLEVA, Ye.; ZAYTSEV, I.; KHMELEVA, V.

Today you hibernate, tomorrow you rush. Okhr. truda i sots. strakh. 4 no.8:20-23 Ag '61. (MIRA 14:11)

1. Zaveduyushchaya zdravpunktom zavoda khimicheskogo machinostroyeniya, g. Yaroslavl' (for Sapronova). 2. Vneshtatnyy tekhnicheskiy inspektor Yaroslavskogo Dorozhnogo komiteta professional'nogo soyuza rabotnikov zheleznodorozhnogo transporta (for Trapeznikov). 3. Zamestitel' predsedatelya zavodskogo komiteta shinnogo zavoda, g. Yaroslavl' (for Soboleva). 4. Glavnyy inzh. Yaroslavskogo oblastnogo otdela zdravookhraneniya (for Zaytsev). 5. Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye", g. Yaroslavl' (for Khmeleva).

(Yaroslavl Province--Hospitals--Construction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N.

Striving for the title of a collective of communist labor. Neftianik 6 no.5:5-6 My '61. (MIRA 14:5)

1. Starshiy inzh. Neftepromyslovogo upravleniya Ordzhonikidzeneft'.
(Ordzhonikidze region—Petroleum industry)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N.

Technical methods, equipment, and people. Neftianik 7 no.5:20-21 My '62. (MIRA 15:12)
(Petroleum industry)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N.

We are fully utilizing our reserves. Neftianik 8 no.2:29 F '63. (MIRA 16:10)

1. Starshiy inzh. otdela truda nefteпromyslovogo upravleniya Ordzhonikidzeneft'.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

22(5) SOV/92-59-3-29/44

AUTHOR: Sapronov, N.F., Senior Engineer

TITLE: Experience in Awarding Financial Incentives to Leaders in Socialist Competition (Ob opyte material'nogo pooshchreniya peredovikov sotsialisticheskogo sorevnovaniya)

PERIODICAL: Neftyanik, 1959, Nr 3, p 24 (USSR)

ABSTRACT: The author states that the encouragement of leaders in socialist competition is an important factor which may stimulate their efforts. Thanks to efforts made jointly by its staff members, the Ordzhonikidzeneft' Petroleum Production Administration managed to accumulate certain funds from which financial incentives can be distributed to the most successful crews under conditions set for the socialist competition. To receive such a reward the crew participating in the socialist competition has to show its efficiency in completing the production plan, in lowering production costs, in improving

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

safety precautions, and in putting into effect a number of practical suggestions. In addition to the cash reward, the crew which wins the socialist competition contest may receive an honorary red banner challenge prize. In 1958 the red banner and the cash reward were adjudged to the personnel of the No 2 oilfield, the No 1 section of the No 5 oilfield, and No 2 section of the No 1 oilfield. The personnel of the No 2 oilfield received a reward of 5000 rubles. In this oilfield the cost of petroleum production was substantially reduced, and a number of abandoned oilwells were again put into production. Among groups of oilmen who were particularly successful was the staff of the No 1 oilfield, headed by Firangiz Gosymova, candidate for membership in the communist party. She distinguished herself by properly organizing the work which her team has to complete, and by the excellent results of her efforts.

ASSOCIATION: Otdel truda NPU Ordzhonikidzeneft' (The Personnel Department of the Ordzhonikidzeneft' Petroleum Production Administration)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N. F.

Promoting a perfect organization of production. Avt.transp. 38 no.3:11 Mr '60. (MIRA 13:6)

1. Starshiy inzhener otdela truda nefteprom yslovogo upravleniya "Ordzhonikidzeneft'."
(Ordzhonikidze--Petroleum--Transportation)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N.F.

Strong friendship. Neftianik 7 no.12:17-18 D '62. (MIRA 16:6)

(Petroleum pipelines)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, N.F.

Volunteer office of economic analysis. Neftianik 7 no.9:31 S '62. (MIRA 16:7)

1. Starshiy inzh. otdela truda neftepromyslovogo upravleniya Ordzhonikidzeneft'.
(Ordzhoninikidze region (Azerbaijan)—Oil well drilling—Equipment and supplies)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4

SAPRONOV, P.

A useful initiative. Radio no.12:4 D '62. (MIRA 16:3)
(Radio operators)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447130016-4"